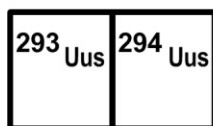
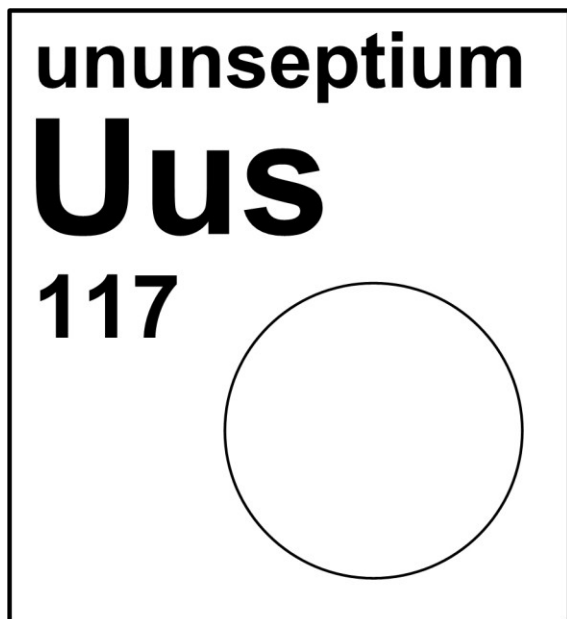





ununseptium



Stable isotope	Atomic mass	Mole fraction
(none)		

Half-life of radioactive isotope

Less than 1 second	
Between 1 second and 1 hour	
Greater than 1 hour	

Important applications of stable and/or radioactive isotopes

Russian and U.S. physicists worked together to synthesize ununseptium at the Joint Institute for Nuclear Research in Dubna, Russia. Ununseptium was synthesized through the nuclear fission reaction of ^{48}Ca ions with ^{249}Bk nuclei in the Dubna gas filled recoil separator and the heavy ion cyclotron U-400. Two isotopes of Uus have also been synthesized, which are ^{293}Uus and ^{294}Uus .

Applications: There are currently no uses for isotopes of Uus outside of scientific research.

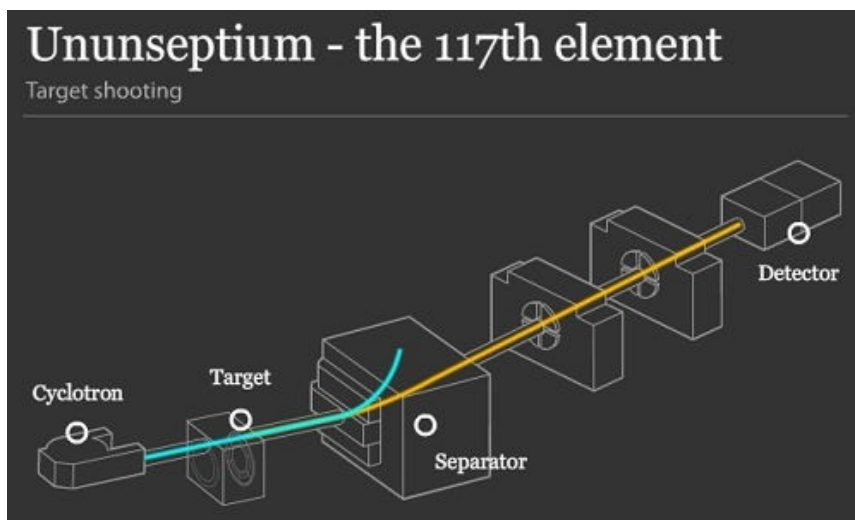


Figure 1: Diagram of Cyclotron U-400. (Diagram Source: RIA Novosti).

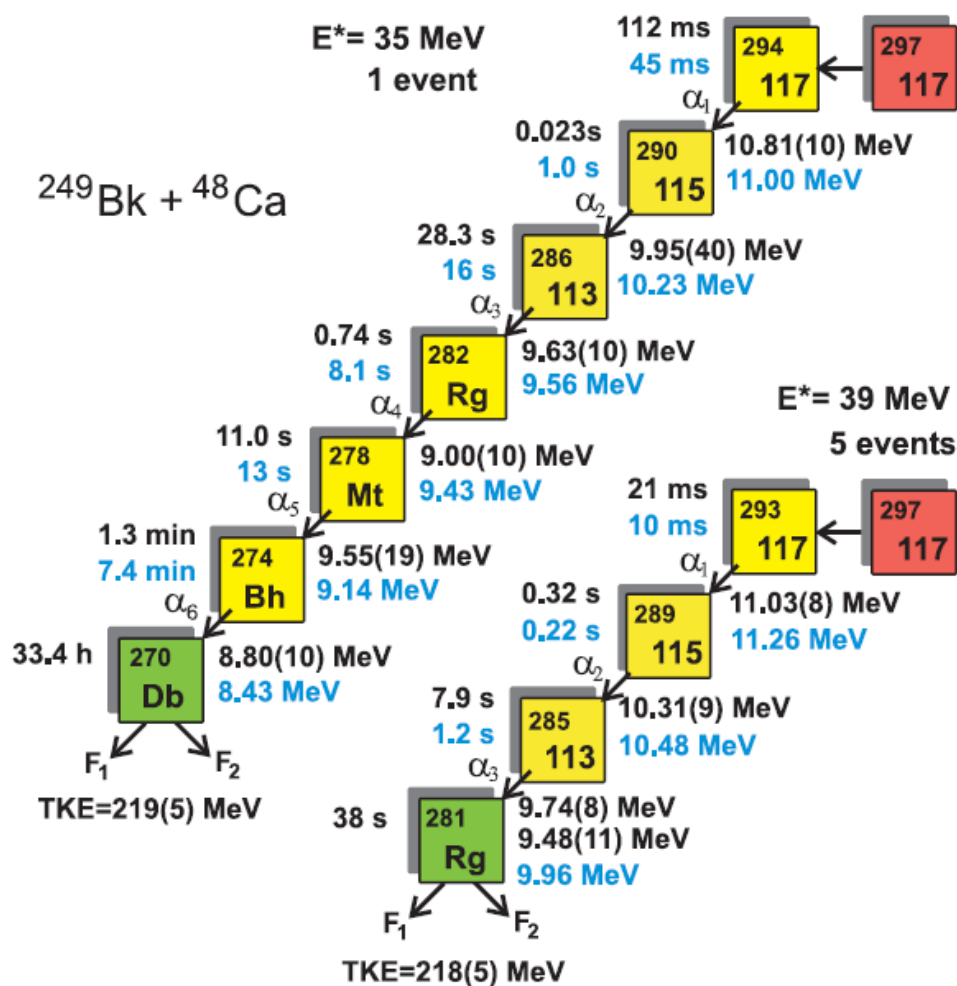


Figure 2: Uus decay chain. (Diagram Source: Yu. Ts. Oganessian et al, 2010).